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PATENT APPLICATION
Docket No: 14321.72

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:		)
	Masamichi Fujiwara et al.	) )
Serial No.:	10/534,310	) ) > A + H ::
Filing Date:	May 9, 2005	) Art Unit ) 2872
Confirmation No.:	1071	)
For:	OPTICAL MODULATING DEVICE	) )

### TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. § 1.97 is an Information Disclosure Statement, which includes the following statements, if any, required variously by 37 C.F.R. § 1.98:

<u>X</u>	Statement of relevance of selected cited references not in the English language which are not translated.
	Statement that selected cited references are substantially cumulative of an enclosed or previously submitted reference.

Statement that selected cited references were previously cited by or submitted to the United States Patent and Trademark Office in a prior application which is relied upon for an earlier filing date under 35 U.S.C. § 120.

	A.	<u>Additi</u>	onal Materials Required Due to Content of Information Disclosure Statement		
as requ			re the following documents in addition to the Information Disclosure Statement under 37 C.F.R. § 1.98:		
	<u>X</u>	Form PTO-1449 listing 6 references submitted for consideration.			
	<u>X</u>	A copy	y of 6 Non-US references listed on the Form PTO-1449.		
			h translations of (_) of the references listed on the Form PTO-1449 are not in the English language.		
		Copies	s of the following documents from the prosecution of a previous, related ation:		
			Form PTO-1449 AND INFORMATION DISCLOSURE STATEMENT; and		
			Form PTO-892		
	B.	Additi Statem	onal Materials Required Due to Timing of Filing of Information Disclosure		
follow			ted Information Disclosure Statement is being filed within one (1) of the ne periods:		
	I.	<u>X</u>	Prior to the later of either three (3) months following the filing date or the mailing of a first Office Action. Accordingly, no materials other than those listed above are enclosed.		
	II.		Following the latter of either three (3) months following the filing date or the mailing of a first Office Action, but before the mailing of a final Office Action or a Notice of Allowance. Accordingly, to secure consideration thereof, one (1) of the following is also enclosed:		
			Promptness Certification; or		
			Check No in the amount of constituting the submission fee set forth in 37 C.F.R. § 1.17(p).		
	III.		After the mailing of a Notice of Allowance, but before payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are also enclosed:		
			Promptness Certificate;		
			Petition for Consideration; and		

		Check No. in the amount of constituting the petition fee set forth in 37 C.F.R. § 1.17(i)(1).		
IV.		After payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are also enclosed:		
		Petition to Withdraw from Issue; and		
	<del></del>	Check No in the amount of constituting the petition fee set forth in 37 C.F.R. § 1.17(i)(1).		
C.	<u>Fees</u>			
The Commissioner is hereby authorized to charge payment of or any deficiency in the following fees associated with this communication, or to credit any overpayment thereof, to Deposit Account No. 23-3178. A duplicate copy of this letter is enclosed.				
<u>X</u>	Any fee required in relation to filing of this letter or any documents transmitted therewith.			
	The submission fee set forth in 37 C.F.R. § 1.17(p) in the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that any Promptness Certificate submitted meets the requirements of 37 C.F.R. § 1.97(e).			
	The su	abmission fee set forth in 37 C.F.R. § 1.17(p).		
	The pe	etition fee set forth in 37 C.F.R. § 1.17(i)(1).		
Dated	this 9 <sup>th</sup>	day of November 2005.		
		Respectfully submitted,		

DANA L. TANGREN
Attorney for Applicant
Registration No. 37,246
Customer No. 022913
Telephone No. 801.533.9800

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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	)	
	Masamichi Fujiwara et al.	)
Serial No.:	10/534,310	) ) )
Filing Date:	May 9, 2005	) Art Unit ) 2872
Confirmation No.:	1071	)
For:	OPTICAL MODULATING DEVICE	) )

# INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed listed references are disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof that is not a US patent document is also enclosed.

# Statement of Relevance of References Listed Unaccompanied by English Translation Under 37 CFR § 1.98(a)(3)

In accordance with 37 CFR § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

Japanese Patent No. 2002-318374: PROBLEM TO BE SOLVED: to actualize a multi-wavelength batch optical modulating device which can have its hardware constituted at a low cost and also can reduce the trouble and cost for maintenance management. SOLUTION: The optical modulating device is composed of one wavelength multiplexing and demultiplexing means, a plurality of light intensity modulators corresponding to the number of light carriers to be generated, and optical recurrence means which are as many as the light intensity modulators.

Japanese Patent No. 2003-018853: PROBLEM TO BE SOLVED: To reduce a common made current applied to a power converter comprising a PWM rectifier circuit and a PWM inverter circuit at a low cost. SOLUTION Semiconductor devices Q1, Q3, and Q5 of a PWN rectifier circuit and semiconductor devices Q7, Q9, and Q11 of a PWM inverter circuit are simultaneously turned on (or off) or, semiconductor devices Q2, Q4, and Q6 of the PWM rectifier circuit and semiconductor devices Q8, Q10, and Q12 of the PWM inverter circuit are simultaneously turned off (or on) to reduce a change of a common mode voltage and hence reduce a common mode current. As a result, the dimensional reduction of a common mode filter and the dimensional reduction of a cooler of a common mode current suppressor can be realized, so that the cost can be reduced.

Dated this 9<sup>th</sup> day of November 2005.

Respectfully submitted,

Dana L. Tangren

Attorney for Applicant Registration No. 37,246

Customer No. 022913

Telephone No. 801.533.9800

Dam n/angr

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PATENT APPLICATION Docket No: 14321.72

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:		)
	Masamichi Fujiwara et al.	)
Serial No.:	10/534,310	) ) )
Filing Date:	May 9, 2005	) Art Unit ) 2872
Confirmation No.:	1071	)
For:	OPTICAL MODULATING DEVICE	)

### CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that the following documents are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the 9<sup>th</sup> day of November 2005.

- Transmittal for Information Disclosure Statement (3 pages)
- Information Disclosure Statement (2 pages)
- Form PTO-1449 listing 6 references (2 pages)
- A copy of 6 Non-US references listed on the Form PTO-1449

Postcard

Respectfully submitted,

DANA L. TANGREN Attorney for Applicant

Registration No. 37,246

Customer No. 022913

Telephone No. 801.533.9800

DLT:dfw

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Form PTO-1449

Applicant: Serial No.:

1

Masamichi Fujiwara et al.

Sheet 1 of 3

it:

10/534,310

Confirmation No.: 1071 Att'y Docket No.: 14321.72

Filing Date:

May 9, 2005

Art Unit: 2872

For:

OPTICAL MODULATING DEVICE



### INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

RADEMARK.	<i>y</i>	U.S. Patent Documents	<u>S</u>		
Examiner <u>Initial*</u>	Document Number	Issue <u>Date</u>	<u>Name</u>	<u>Name</u>	
		Foreign Patent Documer	<u>nts</u>		
Examiner <u>Initial</u> *	Document Number	Publication	Country or Patent Office	Translation	
1	2 389 974	12/13/2002	Canada	N/A	
2	2002-318374	10/31/2002	Japan	No	
3	2003-018853	01/17/2003	Japan	No	
Examiner <u>Initial</u> *		Other Documents (including author, title, pertinent pa	ges, etc.)		
4		oise Properties and Cascadabil e IEEE, Vol. 2, 2002, pp. 895-		rs, The 15 <sup>th</sup>	
5	Hiroshi Takahashi et al., <i>Impact of Crosstalk in an Arrayed-Waveguide Multiplexer on N x N Optical Interconnection</i> , Journal of Lightwave Technology, Vol. 14, No. 6, June 1996, pp. 1097-1105.				
6	_	., Margin Measurements in Opt Vol. 5, No. 3, March 1993, pp. 3		E Photonics	
				<del></del>	
Examiner:		Date Considere	ed:		

*EXAMINER: Initial if reference cons	idered, whether or not citation is in conformance	ce with MPEP 609, dr	aw line through citation if
	Include copy of this form with next communic		3

Form PTO-1449

Applicant:

Masamichi Fujiwara et al.

Serial No.:

10/534,310

Filing Date:

May 9, 2005

For:

OPTICAL MODULATING DEVICE

Sheet 2 of 3

Confirmation No.: 1071 Att'y Docket No.: 14321.72

Art Unit: 2872

### References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

Examiner:	Date Considered:	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.